

# LAN Cable

**Part No:** FTPL6AHF

## Communication/LAN/CAT6A -CABLE

<b>Description</b>	Solid 23AWG PACW, Foam PE insulated, Twinned 4Pair, Cross-web Separator, Overall Aluminium laminate screen (Al facing in) with a TAC drain wire, Rip Cord, LSZH Sheath, Cat6A F/UTP cable.
<b>Applicable Standards</b>	ANSI/TIA 568-C.2, ISO/IEC 11801-2, AS/NZS 11801.1, AS/CA S-008, AS 1049, AS/NZS IEC 60332-1
<b>Suitable Applications</b>	Used for horizontal and fixed wiring in Structured cabling and computer networks operating up to 10 Gbit on Category 6A/Class EA links. Suitable for 10BaseT, 100BaseT, 1000BaseT and 10GBaseT Ethernet applications. Not suitable for mains connection.

### Images

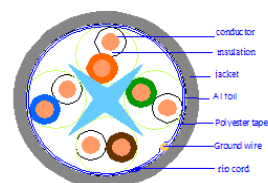


Image for Illustration purposes only.



### Features

- Indoor Cable
- Fire Retardant
- LSZH
- Screened

### Construction

<b>Conductor</b>	Material	Solid Plain Annealed Copper Wire
	Size	23 AWG

FTPL6AHF-240124-fire table

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## Construction

<b>Insulation</b>	Material	Foam PE
	Nos of Pairs	4
<b>Construction</b>	Colour Code	Blue and White/Blue, Orange and White/Orange Green and White/Green Brown and White/Brown
	<b>Filler</b>	Type
<b>Screen</b>	Material	AL/PET laminate foil
	Application	Overall Screen - Aluminum facing in
	Overlap	20%
	Drain Wire	26 AWG Tinned Annealed Copper
<b>Sheath</b>	Material	LSZH
	Colour	Refer to Supply Info Table
	Nominal Thickness (mm)	0.5
	Nominal OD (mm)	7.3

## Electrical Properties

<b>Voltage Rating</b>	80V
<b>Nom. Conductor DC Resistance @ 20°C</b>	73.2 Ω/km
<b>Characteristic Impedance</b>	100±15Ω @ 1- 250 MHz 100±22Ω @ 250-500 MHz
<b>Velocity of Propagation</b>	Nom 65%
<b>Propagation Delay @ 500MHz</b>	≤ 536 nsec/100m
<b>Delay Skew</b>	≤ 45 nsec/100m
<b>Max. Capacitance Conductor to Cond.</b>	56 pF/m
<b>Voltage Test: Conductor to core</b>	1.5kV dc/1min

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## Mechanical Properties

Operating Temperature Range	-15°C to +75°C (Operating) -0°C to +50°C (Installation)
Max. Recommended Pulling Tension	125N
Min. Bend Radius	65 mm installation
Approximate Mass	5.3 kg/100m

## Fire and Flame Properties

Single Flame Test	IEC 60332.1
AZ/NZS Classification	RFPI

## Nominal Transimission Table

Freq (MHz)	1.0	4.0	8.0	10.0	16.0	20.0	31.25	62.5	100	200	300	500
Insertion Loss (dB/100m)	2.0	3.8	5.3	5.9	7.5	8.4	10.5	15.0	19.1	27.6	34.3	45.3
NEXT (dB)	74.3	65.3	60.8	59.3	56.2	54.8	51.9	47.4	44.3	39.8	37.1	33.8
PSNEXT (dB)	72.3	63.3	58.8	51.9	54.2	52.8	49.9	45.4	42.3	37.8	35.7	31.8
Return Loss (dB)	20.0	23.0	24.5	25.0	25.0	25.0	23.6	21.5	20.1	18.0	17.3	17.3
ACRF (dB)	67.8	55.8	49.7	47.8	43.7	41.8	37.9	31.9	27.8	21.8	18.3	13.8
PSACRF (dB)	64.8	52.8	46.7	44.8	40.7	38.8	34.9	28.9	24.8	18.8	15.3	10.8

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## Supply Information

Part No.	Pack Size	Jacket Colour	Pack Type	Reel/Spool Size
FTPL6AHFBK305	305	Black	Spool	TBA
FTPL6AHFBL305	305	Blue	Spool	TBA
FTPL6AHFBL500	500	Blue	Spool	TBA
FTPL6AHFBN305	305	Brown	Spool	TBA
FTPL6AHFGN305	305	Green	Spool	TBA
FTPL6AHFGY500	500	Grey	Spool	TBA
FTPL6AHFGY305	305	Grey	Spool	TBA
FTPL6AHFOG305	305	Orange	Spool	TBA
FTPL6AHFPK305	305	Pink	Spool	TBA
FTPL6AHFRD305	305	Red	Spool	TBA
FTPL6AHFVT305	305	Violet	Spool	TBA
FTPL6AHFWH305	305	White	Spool	TBA
FTPL6AHFYE305	305	Yellow	Spool	TBA

- Madison reserves the right to make changes to the products described in this specification without prior notice.
- All values subject to factory tolerances.

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